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1600

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/589,777C

DATE: 03/27/2002  
TIME: 13:56:02

Input Set : A:\1440.1023-011.txt  
Output Set: N:\CRF3\03272002\I589777C.raw

4 <110> APPLICANT: Sukhatme, Vikas P.  
6 <120> TITLE OF INVENTION: Anti-Angiogenic Peptides and Methods of  
7 Use Thereof  
9 <130> FILE REFERENCE: 1440.1023-011  
11 <140> CURRENT APPLICATION NUMBER: US 09/589,777C  
12 <141> CURRENT FILING DATE: 2000-06-08  
14 <150> PRIOR APPLICATION NUMBER: PCT/US98/26057  
15 <151> PRIOR FILING DATE: 1998-12-08  
17 <150> PRIOR APPLICATION NUMBER: US 60/108,536  
18 <151> PRIOR FILING DATE: 1998-11-16  
20 <150> PRIOR APPLICATION NUMBER: US 60/082,663  
21 <151> PRIOR FILING DATE: 1998-04-22  
23 <150> PRIOR APPLICATION NUMBER: US 60/067,888  
24 <151> PRIOR FILING DATE: 1997-12-08  
26 <160> NUMBER OF SEQ ID NOS: 25  
28 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
30 <210> SEQ ID NO: 1  
31 <211> LENGTH: 555  
32 <212> TYPE: DNA  
33 <213> ORGANISM: Mus musculus  
35 <220> FEATURE:  
36 <221> NAME/KEY: misc\_feature  
37 <222> LOCATION: (1)...(525)  
38 <223> OTHER INFORMATION: protein EM1  
40 <221> NAME/KEY: misc\_feature  
41 <222> LOCATION: (1)...(501)  
42 <223> OTHER INFORMATION: protein EM2  
44 <221> NAME/KEY: CDS  
45 <222> LOCATION: (1)...(552)  
47 <400> SEQUENCE: 1  
48 cat act cat cag gac ttt cag cca gtg ctc cac ctg gtg gca ctg aac 48  
49 His Thr His Gln Asp Phe Gln Pro Val Leu His Leu Val Ala Leu Asn 15  
50 1 5 10 15 96  
52 acc ccc ctg tct gga ggc atg cgt ggt atc cgt gga gca gat ttc cag  
53 Thr Pro Leu Ser Gly Gly Met Arg Gly Ile Arg Gly Ala Asp Phe Gln 30  
54 20 25 30 144  
56 tgc ttc cag caa gcc cga gcc gtg ggg ctg tcg ggc acc ttc cgg gct  
57 Cys Phe Gln Gln Ala Arg Ala Val Gly Leu Ser Gly Thr Phe Arg Ala 45  
58 35 40 192  
60 ttc ctg tcc tct agg ctg cag gat ctc tat agc atc gtg cgc cgt gct  
61 Phe Leu Ser Ser Arg Leu Gln Asp Leu Tyr Ser Ile Val Arg Arg Ala 60  
62 50 55 240  
64 gac cgg ggg tct gtg ccc atc gtc aac ctg aag gac gag gtg cta tct

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65 Asp Arg Gly Ser Val Pro Ile Val Asn Leu Lys Asp Glu Val Leu Ser
66 65 70 75 80
68 ccc agc tgg gac tcc ctg ttt tct ggc tcc cag ggt caa ctg caa ccc 288
69 Pro Ser Trp Asp Ser Leu Phe Ser Gly Ser Gln Gly Gln Leu Gln Pro
70 85 90 95
72 ggg gcc cgc atc ttt tct ttt gac ggc aga gat gtc ctg aga cac cca 336
73 Gly Ala Arg Ile Phe Ser Phe Asp Gly Arg Asp Val Leu Arg His Pro
74 100 105 110
76 gcc tgg ccg cag aag agc gta tgg cac ggc tcg gac ccc agt ggg cgg 384
77 Ala Trp Pro Gln Lys Ser Val Trp His Gly Ser Asp Pro Ser Gly Arg
78 115 120 125
80 agg ctg atg gag agt tac tgt gag aca tgg cga act gaa act act ggg 432
81 Arg Leu Met Glu Ser Tyr Cys Glu Thr Trp Arg Thr Glu Thr Thr Gly
82 130 135 140
84 gct aca ggt cag gcc tcc tcc ctg ctg tca ggc agg ctc ctg gaa cag 480
85 Ala Thr Gly Gln Ala Ser Ser Leu Leu Ser Gly Arg Leu Leu Glu Gln
86 145 150 155 160
88 aaa gct gcg agc tgc cac aac agc tac atc gtc ctg tgc att gag aat 528
89 Lys Ala Ala Ser Cys His Asn Ser Tyr Ile Val Leu Cys Ile Glu Asn
90 165 170 175
92 agc ttc atg acc tct ttc tcc aaa tag 555
93 Ser Phe Met Thr Ser Phe Ser Lys
94 180
97 <210> SEQ ID NO: 2
98 <211> LENGTH: 184
99 <212> TYPE: PRT
100 <213> ORGANISM: Mus musculus
102 <400> SEQUENCE: 2
103 His Thr His Gln Asp Phe Gln Pro Val Leu His Leu Val Ala Leu Asn
104 1 5 10 15
105 Thr Pro Leu Ser Gly Gly Met Arg Gly Ile Arg Gly Ala Asp Phe Gln
106 20 25 30
107 Cys Phe Gln Gln Ala Arg Ala Val Gly Leu Ser Gly Thr Phe Arg Ala
108 35 40 45
109 Phe Leu Ser Ser Arg Leu Gln Asp Leu Tyr Ser Ile Val Arg Arg Ala
110 50 55 60
111 Asp Arg Gly Ser Val Pro Ile Val Asn Leu Lys Asp Glu Val Leu Ser
112 65 70 75 80
113 Pro Ser Trp Asp Ser Leu Phe Ser Gly Ser Gln Gly Gln Leu Gln Pro
114 85 90 95
115 Gly Ala Arg Ile Phe Ser Phe Asp Gly Arg Asp Val Leu Arg His Pro
116 100 105 110
117 Ala Trp Pro Gln Lys Ser Val Trp His Gly Ser Asp Pro Ser Gly Arg
118 115 120 125
119 Arg Leu Met Glu Ser Tyr Cys Glu Thr Trp Arg Thr Glu Thr Thr Gly
120 130 135 140
121 Ala Thr Gly Gln Ala Ser Ser Leu Leu Ser Gly Arg Leu Leu Glu Gln
122 145 150 155 160
123 Lys Ala Ala Ser Cys His Asn Ser Tyr Ile Val Leu Cys Ile Glu Asn

```

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124                               165                               170                               175
125 Ser Phe Met Thr Ser Phe Ser Lys
126                               180
128 <210> SEQ ID NO: 3
129 <211> LENGTH: 26
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: Oligonucleotide
136 <400> SEQUENCE: 3
137 ggcataatgca tactcatcag gacttt
139 <210> SEQ ID NO: 4
140 <211> LENGTH: 26
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: Oligonucleotide
147 <400> SEQUENCE: 4
148 aactcgagct atttggagaa agaggt
150 <210> SEQ ID NO: 5
151 <211> LENGTH: 24
152 <212> TYPE: PRT
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: Leader peptide on protein produced by prokaryotic
157 expression system pET17b, mouse endostatin begins
158 immediately after.
160 <400> SEQUENCE: 5
161 Met Gly His His His His His His His His His His Ser Ser Gly His
162 1 5 10 15
163 Ile Asp Asp Asp Asp Lys His Met
164 20
166 <210> SEQ ID NO: 6
167 <211> LENGTH: 28
168 <212> TYPE: DNA
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Oligonucleotide
175 <400> SEQUENCE: 6
176 aagcggccgc ctatttggag aaagaggt
178 <210> SEQ ID NO: 7
179 <211> LENGTH: 21
180 <212> TYPE: PRT
181 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: Leader peptide on protein produced by prokaryotic
185 expression system pET28a, mouse endostatin begins
186 immediately after.
188 <400> SEQUENCE: 7

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189 Met Gly Ser Ser His His His His His Ser Ser Gly Leu Val Pro
190 1 5 10 15
191 Arg Gly Ser His Met
192 20
194 <210> SEQ ID NO: 8
195 <211> LENGTH: 33
196 <212> TYPE: DNA
197 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: Oligonucleotide
202 <400> SEQUENCE: 8
203 ttccatatgc atactcatca ggactttcag cca 33
205 <210> SEQ ID NO: 9
206 <211> LENGTH: 35
207 <212> TYPE: DNA
208 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: Oligonucleotide
213 <400> SEQUENCE: 9
214 ttagcggccg cctactcaat gcacaggacg atgta 35
216 <210> SEQ ID NO: 10
217 <211> LENGTH: 38
218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Oligonucleotide
224 <400> SEQUENCE: 10
225 ttagcggccg cctagttgtg gcagctcgca gctttctg 38
227 <210> SEQ ID NO: 11
228 <211> LENGTH: 26
229 <212> TYPE: DNA
230 <213> ORGANISM: Artificial Sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: Oligonucleotide
235 <400> SEQUENCE: 11
236 gggaattcca tactcatcag gacttt 26
238 <210> SEQ ID NO: 12
239 <211> LENGTH: 32
240 <212> TYPE: DNA
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: Oligonucleotide
246 <400> SEQUENCE: 12
247 aagaattcca tcatcatcat catcacagca gc 32
249 <210> SEQ ID NO: 13
250 <211> LENGTH: 26
251 <212> TYPE: PRT
252 <213> ORGANISM: Artificial Sequence
254 <220> FEATURE:

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PATENT APPLICATION: US/09/589,777C

DATE: 03/27/2002

TIME: 13:56:02

Input Set : A:\1440.1023-011.txt

Output Set: N:\CRF3\03272002\I589777C.raw

255 <223> OTHER INFORMATION: Leader peptide on protein produced by eukaryotic  
 256 yeast expression system pPICZaA, mouse endostatin  
 257 protein begins immediately after.  
 259 <400> SEQUENCE: 13  
 260 Glu Phe Met Gly His His His His His His His His Ser Ser  
 261 1 5 10 15  
 262 Gly His Ile Asp Asp Asp Lys His Met  
 263 20 25  
 265 <210> SEQ ID NO: 14  
 266 <211> LENGTH: 44  
 267 <212> TYPE: DNA  
 268 <213> ORGANISM: Artificial Sequence  
 270 <220> FEATURE:  
 271 <223> OTHER INFORMATION: Oligonucleotide  
 273 <400> SEQUENCE: 14  
 274 ttggaattcg cccacagcca cgcgacttc cagccggtgc tcca 44  
 276 <210> SEQ ID NO: 15  
 277 <211> LENGTH: 44  
 278 <212> TYPE: DNA  
 279 <213> ORGANISM: Artificial Sequence  
 281 <220> FEATURE:  
 282 <223> OTHER INFORMATION: Oligonucleotide  
 284 <400> SEQUENCE: 15  
 285 aaaagcggcc gcctacttgg aggcagtcac gaagctgttc tcaa 44  
 287 <210> SEQ ID NO: 16  
 288 <211> LENGTH: 51  
 289 <212> TYPE: DNA  
 290 <213> ORGANISM: Artificial Sequence  
 292 <220> FEATURE:  
 293 <223> OTHER INFORMATION: Oligonucleotide  
 295 <400> SEQUENCE: 16  
 296 ttttttgaat tcattcaag tgccaattat gagaagcctg ctctgcattt g 51  
 298 <210> SEQ ID NO: 17  
 299 <211> LENGTH: 50  
 300 <212> TYPE: DNA  
 301 <213> ORGANISM: Artificial Sequence  
 303 <220> FEATURE:  
 304 <223> OTHER INFORMATION: Oligonucleotide  
 306 <400> SEQUENCE: 17  
 307 aagaatgcgg cgcgttactt cctagcgtct gtcacgaaac tgttttcgat 50  
 309 <210> SEQ ID NO: 18  
 310 <211> LENGTH: 24  
 311 <212> TYPE: DNA  
 312 <213> ORGANISM: Artificial Sequence  
 314 <220> FEATURE:  
 315 <223> OTHER INFORMATION: Oligonucleotide  
 317 <400> SEQUENCE: 18  
 318 aattccatca ccatcacat cacg 24  
 320 <210> SEQ ID NO: 19

VERIFICATION SUMMARY

DATE: 03/27/2002

PATENT APPLICATION: US/09/589,777C

TIME: 13:56:03

Input Set : A:\1440.1023-011.txt

Output Set: N:\CRF3\03272002\I589777C.raw